Longest String Chain (View)

You are given an array of words where each word consists of lowercase English letters.

word, is a predecessor of word, if and only if we can insert exactly one letter anywhere in word, without changing the order of the other characters to make it equal to word.

• For example, "abc" is a **predecessor** of "abac", while "cba" is not a **predecessor** of "bcad".

A word chain is a sequence of words [word1, word2, ..., wordk] with k >= 1, where word1 is a **predecessor** of word2, word2 is a **predecessor** of word3, and so on. A single word is trivially a word chain with k == 1.

Return the **length** of the **longest possible word chain** with words chosen from the given list of words.

Example 1:

```
Input: words = ["a","b","ba","bca","bda","bdca"]
Output: 4
Explanation: One of the longest word chains is ["a","ba","bda","bdca"].
```

Example 2:

```
Input: words = ["xbc","pcxbcf","xb","cxbc","pcxbc"]
Output: 5

Explanation: All the words can be put in a word chain ["xb", "xbc", "cxbc", "pcxbc", "pcxbcf"].
```

Example 3:

```
Input: words = ["abcd","dbqca"]
Output: 1
Explanation: The trivial word chain ["abcd"] is one of the longest word chains.
["abcd","dbqca"] is not a valid word chain because the ordering of the letters is changed.
```

Constraints:

- 1 <= words.length <= 1000
- 1 <= words[i].length <= 16
- words[i] only consists of lowercase English letters.